

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

RESOLUTION NO. 70-104

AMENDING REQUIREMENTS FOR WASTE DISCHARGE BY
SANITARY DISTRICT NO. 5 FROM POINT TIBURON
SEWERAGE SYSTEM INTO RACCOON STRAITS,
MARIN COUNTY

WHEREAS THIS REGIONAL BOARD HAS CONSIDERED

INFORMATION ABOUT THIS DISCHARGE

1. This Regional Water Quality Control Board prescribed requirements for Sanitary District No. 5, called the discharger below, in Resolution No. 287 which was adopted September 18, 1958. Resolution No. 287 prescribed requirements for waste discharge into Raccoon Straits at Point Tiburon.
2. This Regional Board has stated intent to revise requirements for existing waste discharges to conform with the Bay Water Quality Control Plan.
3. Information in the Regional Board's files describe this existing waste discharge as follows:

Sewage only is discharged into Raccoon Straits south of the intersection of Paradise Drive and Mar West Street at approximately mean lower low water elevation through a 24-inch pipe extending 70 feet from shore. Present average dry weather flow is 0.7 mgd from a population of 6000 people and plant design capacity is reported as 1.4 mgd for a population of 8400 people.

CORRESPONDENCE

This Regional Board has considered correspondence about this matter from:

1. State Department of Fish and Game, in its memorandum dated December 7, 1970.
2. State Department of Public Health, in its memorandum dated December 11, 1970.
3. State Department of Water Resources, in its memorandum dated December 9, 1970.
4. Marin County Health Department, in its letter dated November 30, 1970.

STAFF INVESTIGATION

1. These wastes may affect the following beneficial water uses in Raccoon Straits and contiguous water bodies:

Swimming, water-skiing, skin-diving, wading, pleasure boating,
marinas, and fishing

Fish and wildlife propagation and sustenance, and waterfowl and migratory birds habitat and resting

Navigation channels

Esthetic appeal.

2. Land within 1000 feet of the outfall is used for transportation, commerce, residence, and recreation.
3. Wastes are discharged immediately adjacent to a heavily used public fishing pier.

RESOLVED BY THIS REGIONAL BOARD

BOARD INTENT

1. Protect public health as it may be affected by these waste discharges.
2. Prevent nuisance, as defined in Section 13050(m) of the California Water Code.
3. Protect the beneficial water uses listed under "Staff Investigation" above.

WASTE DISCHARGE REQUIREMENTS - RECEIVING WATERS

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge shall not:
 - a. Unreasonably affect any of the protected beneficial water uses resulting from:

Floating, suspended, or deposited macroscopic particulate matter or foam, in waters of the State at any place;

Bottom deposits at any place;

Aquatic growths at any place;

Alteration of temperature, turbidity, or apparent color beyond present natural background levels in waters of the State at any place.
 - b. Cause visible, floating, suspended or deposited oil or other products of petroleum origin in waters of the State at any place.
 - c. Cause waters of the State to exceed the following limits of quality at any point:

pH	7.0 minimum
	8.5 maximum

Dissolved oxygen	5.0 mg/l minimum; when natural factors cause lesser concentrations then this discharge shall not cause further reduction in the concentration of dissolved oxygen
Dissolved sulfide	0.1 mg/l maximum
Nutrients	to be prescribed at the earliest practicable date
Other substances	any one or more substances in concentrations that impair any of the protected beneficial water uses or make aquatic life or wildlife unfit or unpalatable for consumption.

WASTE DISCHARGE REQUIREMENTS - WASTE STREAM

The waste as discharged to waters of the State shall meet these quality limits at all times:

1. In any grab sample:

Settleable Matter

The arithmetic average of any six or more samples collected on any day	0.5 ml/l/hr., maximum
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80% of all individual samples collected during maximum daily flow over any 30-day period	0.4 ml/l/hr., maximum
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Any sample	1.0 ml/l/hr., maximum.
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2. In any representative set of samples:

Toxicity: survival of test fishes in 96-hour bioassays of the waste as discharged

Any determination	70%, minimum
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Average of any three or more consecutive determinations made during any 21 or more days	90%, minimum.
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3. The waste as discharged or at some point in the treatment process shall meet the following quality limits at all times:

Coliform Organisms

240 MPN/100 ml, median of five consecutive samples, maximum

10,000 MPN/100 ml, any single sample, maximum, when verified by a repeat sample taken within 48 hours

The Board will accept proof of effective effluent disinfection in terms of factors other than bacterial concentrations if the discharger documents a sound statistical correlation between such factors and bacterial analysis, and provided the conditions of sewage strength and treatment do not change from the demonstration period.

Analyses to be determined by the multiple tube fermentation method using at least two portions per decimal dilution.

TIME SCHEDULE FOR COMPLIANCE WITH REQUIREMENTS

Pursuant to Section 13263(c) of the California Water Code, this Regional Board adopts the following time schedule for compliance with the above requirements:

1. Submit by May 1, 1971 a time schedule to include descriptions of facilities and dates for financing, award of contracts for and completion of needed facilities for:
 - A. Immediate corrective measures to minimize pollutional loadings on the Bay during the period that improvements needed to meet all requirements are under way.
 - B. Compliance with all requirements.
 - C. Fail-safe treatment to include duplicate facilities to assure continuous compliance with bacterial requirements.
 - D. Elimination of the discharge of all untreated sewage from the sewer system.

REPORTING REQUIREMENTS

1. This Resolution includes items numbered 1, 2, 3, 4, 6, and 7 of the attached "Reporting Requirements", dated August 28, 1970.
2. Pursuant to Section 13267 of the California Water Code the District is required to submit a report by April 1, 1971 satisfactory to the Executive Officer and the Regional Board documenting the effects of its discharge on Belvedere Cove and Richardson Bay.

NOTIFICATIONS

1. This Board's Resolution No. 287 is hereby amended.
2. This Regional Board will require as a condition for its approval of any construction grant application that:
 - a. The District participate in a subregional study for consolidation, treatment and disposal of its waste water which is consistent with the general concepts of Phase I of the Bay-Delta Program Report and which meets the approval of the Regional Board. The subregional study shall include at least all sewerage entities providing service within the Richardson Bay drainage.
 - b. Fail-safe treatment be provided to include duplicate facilities to assure continuous compliance with bacterial requirements.
3. Based on the results of the study required under Reporting Requirement 2 above, the Regional Board may require removal of toxicants and nutrients to the maximum degree that this has been achieved in any existing plant-scale community waste treatment facility.
4. If the discharger fails to comply with the above time schedule, or fails to implement available immediate corrective measures, the Executive Officer is instructed to bring a recommendation on the initiation of formal enforcement proceedings to the Regional Board for its consideration, which may include the prohibition of additional connections to the sewerage system.
5. This Resolution includes items numbered 1, 2, 3, 4, 5, 6 and 7 of the attached "Notifications" dated January 6, 1970.

WILLIAM C. WEBER
Chairman

December 22, 1970

I, Fred H. Dierker, hereby certify that the foregoing is a true and correct copy of Resolution No. 70-104 adopted by the California Regional Water Quality Control Board, San Francisco Bay Region at its regular meeting on December 22, 1970.

FRED H. DIERKER
Executive Officer
CALIFORNIA REGIONAL WATER QUALITY CONTROL
BOARD, SAN FRANCISCO BAY REGION